

Klas-A, Klas-E **Laser Acupuncture Unit**



User's Guide



English

Getting started/ Using Klas	1
Specifications	2
Tips and troubleshooting	4
Safety and cleaning	5

Getting started

Install your Klas with the included battery and begins to get started low level laser therapy (LLLT).

Using Klas

Klas can be used for treatment of diseases and conditions, follow the recommended dosage and treatment time to get the best efficacy. You can also find new information about using Klas on the web www.konftec.com.

Using the battery

- Use the battery that came with your Klas or any qualified standard battery or rechargeable battery.
- If you do not use your Klas for a period of time, be sure to take battery out from your Klas.

Specifications

Klas-A Laser Acupuncture Unit

Treatment Time Calculation Table										
Dose (J/cm ³)	Depth of Acupoint (cm)	Energy Loss Factor	Treatment Time (seconds)							
			Model	Klas-A20	Klas-A50	Klas-A61	Klas-A79	Klas-A81	Klas-A82	Klas-A84
			LD Power (mW)	25	50	100	90	110	260	460
End Power (mW)	23	45	90	86	88	208	368			
3	0.5	0.6772		13	6	3	3	3	1	1
	1	0.4586		37	19	9	10	10	4	2
	1.5	0.3105		82	42	21	22	21	9	5
	2	0.2103		161	82	41	43	42	18	10
	2.5	0.1424			152	76	80	78	33	19
	3	0.0964				135	141	138	58	33
	3.5	0.0653					243	238	100	57
	4	0.0442					410	401	170	96
	4.5	0.0299					681	666	282	159
	5	0.0203							462	261
6	0.0093								684	

Remarks: 1) Laser beam spot size 0.13 cm²
 2) Energy loss is postulated to be linear at 7.5% per mm of tissue.
 3) Treatment time is calculated by Monte Carlo Simulation method.

Specifications

Klas-E Auricular Laser Acupuncture Unit

Treatment Time Calculation Table

Dose (J/cm ³)	Depth of Acupoint (cm)	Energy Loss Factor	Treatment Time (seconds)						
			Model	<i>Klas-E20</i>	<i>Klas-E50</i>	<i>Klas-E61</i>	<i>Klas-E81</i>	<i>Klas-E82</i>	<i>Klas-E84</i>
			LD Power (mW)	25	50	100	110	260	460
			End Power (mW)	20	40	80	90	180	320
3	0.5	0.6772		8	4	2	2	1	1
	1	0.4586		23	11	6	5	3	1
	1.5	0.3105		51	25	13	11	6	3
	2	0.2103		100	50	25	22	11	6
	2.5	0.1424					41	20	12
	3	0.0964					73	36	20
	3.5	0.0653					125	63	35
	4	0.0442					211	106	59
	4.5	0.0299					351	175	99
	5	0.0203						288	162
6	0.0093							423	

- Remarks:** 1) Laser beam spot size = 0.07 cm²
 2) Energy loss is postulated to be linear at 7.5% per mm of tissue.
 3) Treatment time is calculated by Monte Carlo Simulation method.

About operating and storage temperatures

- ☑ Operate your Klas in a place where the temperature is always between 0 and 60° C (32 to 140° F).
- ☑ Store your Klas in a place where the temperature is always between -20 and 85° C (-4 to 185° F).

Troubleshooting

My Klas won't turn on

- ☑ Make sure Klas's power switch is on.
- ☑ If that doesn't work, check the position of battery in Klas.
- ☑ If that doesn't work, loosen the bottom cap and fasten again.
- ☑ If that doesn't work, contact your local sales office.

Learning more, service and support

There is a wealth of information about using Klas on the Web. For the latest information on Klas service and support information go to www.konftec.com

Obtaining warranty service

If the product appears to be damaged or does not function properly, please follow the advice in this booklet, and the online resources. If the unit still does not function, go to www.konftec.com for instructions on how to obtain warranty service.

Safety

Important safety instructions

Follow all instructions and warnings dealing with your Klas.



Warning

- ☑ Avoid direct eye exposure to the laser beam.
- ☑ Operation of this device, must always be supervised by an adult.

Cleaning

Follow these general rules when cleaning the outside of your Klas and its components:

- ☑ Use a damp, soft, lint-free cloth.
- ☑ Use water or alcohol to clean fiber rod.
- ☑ Don't use aerosol sprays, solvents or abrasives.

Avoid direct sunlight

Protect your Klas from long time direct sunlight.

Do not make repairs yourself

No user-serviceable parts are inside.

About handling

Your Klas may be damaged by improper storage or handling. Be careful not to drop your Klas when treating or transporting the device.



www.konftec.com

© 2008 Konftec Corporation. All rights reserved.

Konf, the Konf logo and Klas
are trademarks of Konftec Corporation,
registered in Taiwan and
other countries.

UKA80601E